# APPENDIX E

### Beck's Lake Site, St. Joseph County, South Bend, IN EPA ID: IND980904379 Soil Sample Location Map



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\* Soil Sample Location





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### APPENDIX F



#### Arsenic Concentrations for Beck's Lake EPA ID Number IND980904379 South Bend, St. Joseph County







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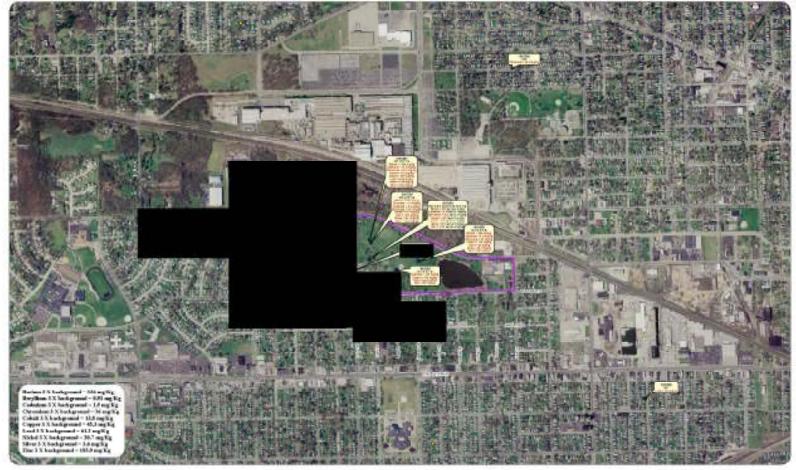


### APPENDIX G



### Heavy Metals Concentrations for Beck's Lake EPA ID Number IND980904379 South Bend, St. Joseph County





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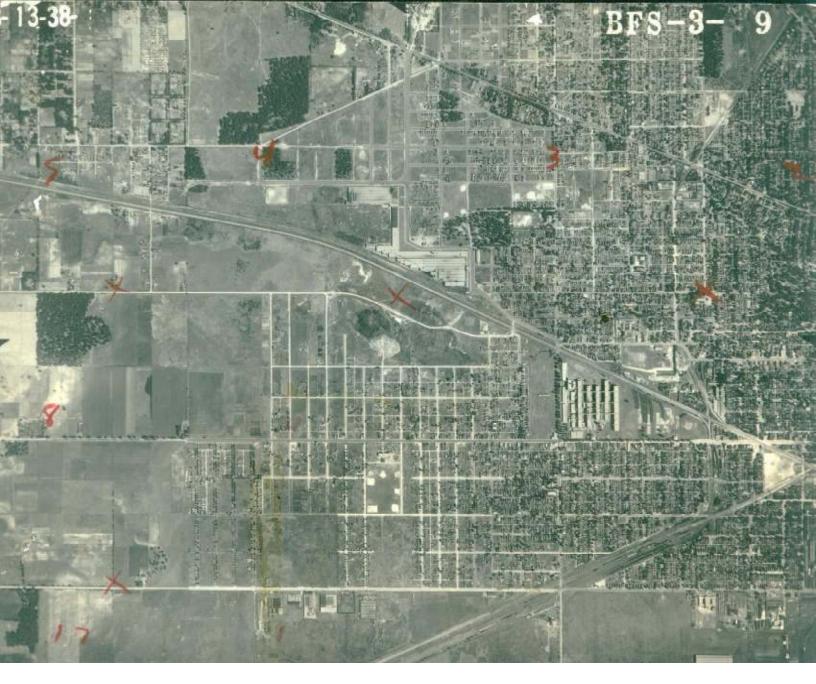
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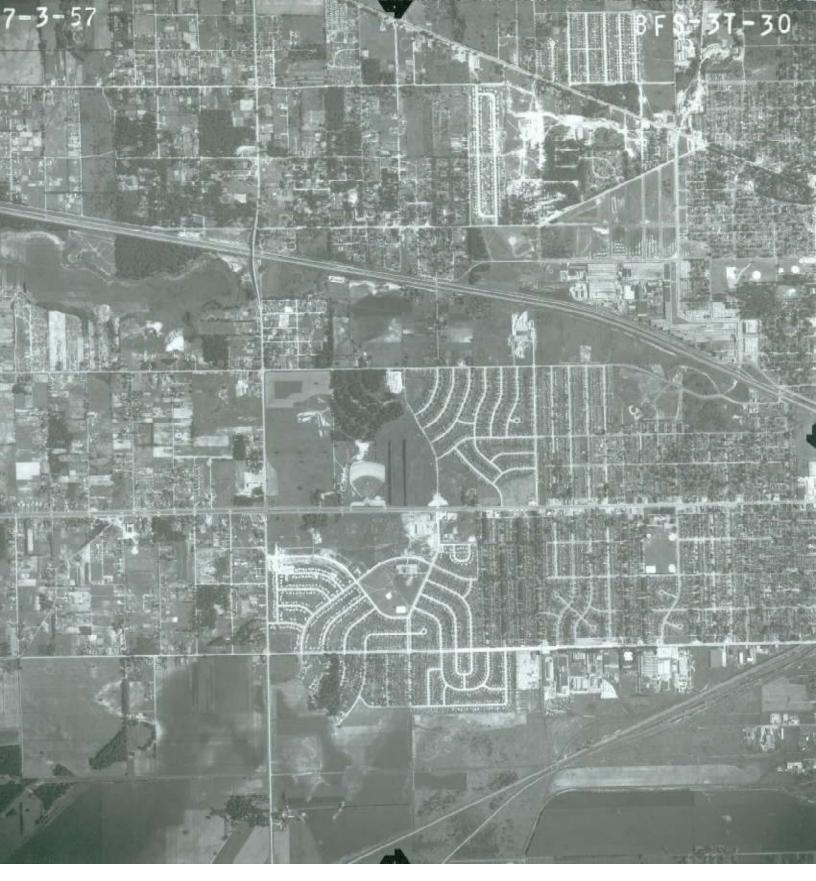
# APPENDIX H





















# APPENDIX I

#### St. Joseph County Health Department

COUNTY-CITY BUILDING - 6TH FLOOR PHONE (219) 284-9750 SOUTH BEND, INDIANA 46601

JAMES E. BOWES, M.D., M.P.H. HEALTH OFFICER

March 28, 1984

Mr. James R. Seitz
Superintendent
Department of Public Works
City of South Bend
301 South St. Louis
South Bend, Indiana 46617

Dear Mr. Seitz:

Subject: Property Described as 12.6 Acres in Section 10-37-2E (LaSalle Park), St. Joseph County, Indiana

As you know, Section 103(c) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (the Act) requires owners or operators of hazardous waste facilities, as defined in the Act, or transporters of hazardous substances to such facilities, to notify the Environmental Protection Agency (EPA) of the existence of facilities and the types of hazardous substances that were treated, stored or disposed of at the facilities.

The Bendix Corporation in South Bend, Indiana ("Bendix") has advised this Office that on the basis of information recently discovered by Bendix at some time during the past forty (40) years Bendix, together with numerous other companies and individuals, disposed of certain hazardous waste materials at the landfill site known as the Beck's Lake Landfill. Bendix is required under the Act to notify the EPA of the fact that the landfill was utilized as a disposal site for such hazardous substances even though the disposals were not unlawful when made and were made with the specific permission of the owner or operator at that time. Since Bendix is notifying the EPA, Bendix and this Office feel that you should be advised that the notification is being made.

To the extent that any assessment of the present conditions of the site will be necessary, Bendix has employed a nationally known environmental consultant, ERM-North Central, Inc. of Palatine, Illinois, to assist this Office in this effort.

We ask you to notify this Office of the names of any company or person other than Bendix who disposed of wastes at the above-identified site.

If you have any questions regarding this notice, please call this Office at 284-9721.

Very truly yours,

Paul E. Trost

Pollution Control Officer

	Notification of Hazardous Waste Sing	Side	Two	7 <b>.4</b> 26			3			
-	Waste Quantity:	Facilit	у Туре		otal Fa	cility Waste A	mount			
	Place an X in the appropriate boxes to	1, 🗆 1	Piles		cubic feet	unknown				
	indicate the facility types found at the site		Land Treatment		gallons	unknown				
	In the "total facility waste amount" space give the estimated combined quantity	3. M3 (	Landfill		62 0.000	cility Area				
	(volume) of hazardous wastes at the site using cubic feet or gallons.	1581 N.H24 N.	mpoundment							
	In the "total facility area" space, give the	6. 🖸 (	Underground In	jection	squere fee					
	estimated area size which the facilities	. 7.01	Drums, Above (	Ground	#07 <b>41</b>	See Item	1			
	occupy using square feet or acres.	0.000,0.000,000	Drums, Below (	Ground						
		9. 11	Other (Specify)							
ì	Known, Suspected or Likely Releases									
	Place an X in the appropriate boxes to indicate any known, suspected, Unknown C Known C Suspected C Likely C None or likely releases of wastes to the environment.									
	Note: Items Hand I are optional. Completing hazardous waste sites. Although completing	g these items g the items	ms will assist E i is not required	PA and State I, you are enc	and local gove ouraged to do	ernments in loc so.	cating and	assessing		
1	Sketch Map of Site Location: (Options	al)			7.0.U : 25%	#1	All Control	N		
	Sketch a map showing streets, highways, routes or other prominent landmarks near	,	_					į.		
	the site. Place an X on the map to indicate	~		88				1		
	the site location. Draw an arrow showing the direction north. You may substitute a	1	>			Q.				
	publishing map showing the site location.		/ >					•		
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	Description of Site: (Optional)		/X	1 /-	-//	//	1			
	Describe the history and present	1	///	17	1	1	Z	$A \perp$		
	conditions of the site. Give directions to the site and describe any nearby wells, springs, lakes, or housing, Include such information as how waste was disposed	ļ	///	/ /.	//	1 1/20	//	K		
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9.0	and where the waste came from Provide				WASHIN	GTON		T.		
	any other information or comments which may help describe the site conditions	-	D	C	T		В	F		
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			N	M	В	1	N	-		
	. Site at some point within	an area	D	D	E	0 1 1				
	of approximately 15 acres.		E	E	R	1				
	. Site owned by the City of		E	N	T	1 1	x	11		
	South Bend.		17	-"	l Y	1 3				
	1274 850 850000 PROSESSES 100 PROSESSES				1					
	. Site area served by City	Water		-		1 1	1			
	System.		1 [	4 1	4		94D	1998 1035		
J	Signature and Title:									
	The person or authorized representative	Name THE BENDIX CORPORATION					Owner, Present			
	(such as plant managers, superintendents, trustees or attorneys) of persons required									
	to notify must sign the form and provide a	Street	Street 401 Bendix Drive (P.O. Box 4001)					- ☑ Transporter		
	mailing address (if different than address in item A). For other persons providing	South Bend Size IN Zin Code 46620 Operator, P					Operator, Present Operator, Past			
	notification, the signature is optional. Check the boxes which best describe the									
	relationship to the site of the person						F-1			
	required to notify. If you are not required to notify check "Other".	Signature	Manager of		ental Cont	rol	oges	500		
	CAMPACA CARTACON AND AND CONTRACTOR OF THE SECOND STATE OF THE SEC		CONTRACTOR OF THE PROPERTY OF THE PARTY OF T							

### SEPA Notification f Hazardous Waste Si

United States **Environmental Protection** Agency Washington DC 20460

This initial notification information is required by Section 103(c) of the Comprehensive Environmental Response, Compen- paper. Indicate the letter of the item sation, and Liability Act of 1980 and must which applies. be mailed by June 9, 1981.

Form Approved OMB No. 2000-0118

EPA Form 8900-1

Please type or print in ink. If you need additional space, use separate sheets of

Site 15



A	Person Required to Notify:	Name THE BENDIX CORPORATION  Street 401 Bendix Drive (P.O. Box 4001)							
	Enter the name and address of the perso or organization required to notify.								
Š.		Crty South Bend		State IN Zip Code 46620					
В	Site Location:		Name of Site "Beck's Lake Site"						
	Enter the common name (if known) and	Name of Site Beck's Lake Site"							
	actual location of the site.	Street Colfan	Sireer Colfax and Kaley Streets						
	* =	City South Bend	County	St. Joseph <sub>Siate</sub> IN	Zio Code 46619				
2	Person to Contact:			2 11 7 4					
	Enter the name, title (if applicable), and	Name (Last, First and Title)	Budzin,	Gerald J Manag	er of Environmental				
	business telephone number of the person to contact regarding information	Phone (219)	237-5993		Contro				
	submitted on this form.								
)	Dates of Waste Handling:				<del></del>				
	Enter the years that you estimate waste		mtil mid	1950's.	40				
	treatment, storage, or disposal began and	From (Year)	To (Year)						
	ended at the site.								
1			63						
	Waste Type: Choose the option you p	refer to complete							
	Option I: Select general waste types and you do not know the general waste types encouraged to describe the site in Item I—	or sources, you are	Resource	; This option is available to Conservation and Recover is (40 CFR Part 261).	persons familiar with the ry Act (RCRA) Section 300				
		f Waste: Specific 1		Type of Waste:	per to each hazardous was				
	boxes. The categories listed boxes. overlap. Check each applicable		EPA has assigned a four-digit number to each hazardous was listed in the regulations under Section 3001 of RCRA. Enter to appropriate four-digit number in the boxes provided. A copy of the list of hazardous wastes and codes can be obtained by contacting the EPA Region serving the State in which the site						
	May have included:	£ 1							
	NY 1971 (AND 1981) AND AND PROPERTY.		located.	I me El M Hegion sei ving	the State in which the Site				
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SIC Code 3714, 3722 &

3728

#### Bendix Corporation South Bend, Indiana

Waste streams as suggested from Division of Land Pollution Control files and waste hauler reports. (Quantites are based on 1979-1980 reports.)

Asbestos containing fire brick
Paint Wastes (VM + P Naptha, aliphatic hydrocarbon solvent, Methyl Isobutyl Ketone, Ethanol and Mineral Spirits)

Tie Bar Wastes M.O.C.A. contaminated wastes (4,4-Methylene bis 2-Chloroaniline) Raw M.O.C.A wastes (approximately 30 gal/yr) Asbestos dust Asbestos pellets Asbestos Soluble Oil and Water Mixture (approximately 10,000 gal/mo) Hydroxide Sludge Chromium Spray Booth Paint Wastes Touch-up Paint Wastes Salt Bath Salts (Chloride salts?) Chromic Acid Zinc Hydroxide/Calcium phosphate sludge Lead Hydroxide/Lead sulfide sludge Wastawater treatment sludge (approximately 300 tons/yr) Iron/Zinc phosphate sludge Heat Treating Salts Chromic Acid contaminated fiberglass pit liner Chromic anodic tank clean-out Chrome plating tape Nickel waste T-Line cleanout Stoddard Solvents Foundry Sand (see below for analysis) Cadmium hydroxide sludge Ferro Cyanide and Cyanide wastes Naphtha

Bendix Corporation makes brakes, steering systems, brake components and streets for automobiles and airplanes. They notified on 17 sites, including their plant at 401 Bendix Drive, South Bend, Indiana. The other 16 properties are off-site and under private ownership. The site names, dates, and addresses are:

St. Joseph County Landfill, Jackson and Locust Roads, 1940-70 St. Joseph County Landfill, U.S. 31 and Ireland, 1969-1971 Dollar Lake Site, SR 23 and Mayflower Road, Early to mid 1960's Area West of Bendix Oil Tank, Linden Avenue, 1940-1970 Beck's Lake Site, Colfax and Kaley Streets, until mid 1950's Butternut Road Site, Butternut and Douglas Roads, 6 months in 1955-1960

Former City/County Landfill, Bendix Drive North of Lincolnway West, until early 1960's Fillmore Road North Site, Fillmore Road West of Mayflower, 1 to 1 1/2 years in mid 1950's Douglas Road Site, Douglas and Bendix Drive, 1960s to closure Linden Road Site, Linden and Chippewa Roads, 30 days, 1970's Pine Road Site, Pine and Fillmore Roads, mid 1960's Sample Street Lagoon Site, 3300 West Sample Street, 1956-1972 Speeks Site, Bendix Drive and Douglas Road, mid 1960's thru early 1970's South Bend Avenue Site, South Bend and Twy Kenham Avenue, unknown Schuman Dump Site, Mayflower and Ireland Road, 1960-1970 Western Avenue Site, Elmer, Huron, Hollywood and Ford, unknown All St. Joseph County-All South Bend

The Bendix Corporation has operated from approximately 1930 to the present time, although off-site disposal was halted sometime around 1973. The disposal dates are approximate in most cases and represent a "best effort" by the company prior to their filing in March of 1984.

Foundry Sand, (in ppm) phenols, 1.2-to-4.6 Naphthalene, .460-to-2.400 Phenanthrene, .2 Zinc, .43-38 Selenium, .08 Methylene Chloride, .012-to-9.2 TCE, .039 1,1,2,2-Tetrochlorethylene, .016 Butylbenzylphalatate, .6-to-.270 Arsenic, 17 Cadmium, 1.0-to-.01 Copper, 12 Lead, 14 Chromium, 6.7 Nickel, 3.4 Manganese, .053 Bis (2-ethylhexyl) phthalate, .680-to-.220 Toluene, .057 Pentachlorophenol, .520 1,3-Isobenzofurandione, 310

These numbers show some ranges resulting from many samplings at various dates. Note that cyanides, sulfates and chlorides were not run on these samples.

### 1976 Bendix Liquid Waste Removal Record

201,600 gallons emulsion 60,070 gallons Trichlorethylene (TCE) sludge 10,000 gallons Sodium Dichromate Waste 3,300 gallons Laquer Thinner Waste 1,500 gallons Copper Cyanide Stripper Waste 15,200 gallons Chromic Acid Waste 715 gallons Copper, Nickel and Cyanide Waste 825 gallons Cadmium Cyanide Waste 605 gallons methylene chloride 214,000 pounds Triad Sludge (unknown components) 33,225 gallons cyanide 1,045 gallons methyl chloroform 220 gallons Perchlorethylene 3 Transformers 3 Capacitors 1,265 gallons PCB oil 550 gallons PCB sludge 1,040 cubic yards/yr foundry sand (\*see analysis other page in packet)

This is a tally of Bendix Corporation Liquid Waste Hauler reports for the year of 1976 to get an idea of wastes disposed of. This could be considered to be a representative sampling of the waste haulers reports and indicative of wastes possibly disposed of prior to 1973 or 1974 when their disposal practices were revised. Since many of the sites Bendix notified on fall into the period prior to 1973-4, this is a means to look at quantities and types of wastes possibly disposed of into off-site private and city/county facilities.

SB/sk